

42
Cat. No. 60
[1960]
Or

Cattleyas

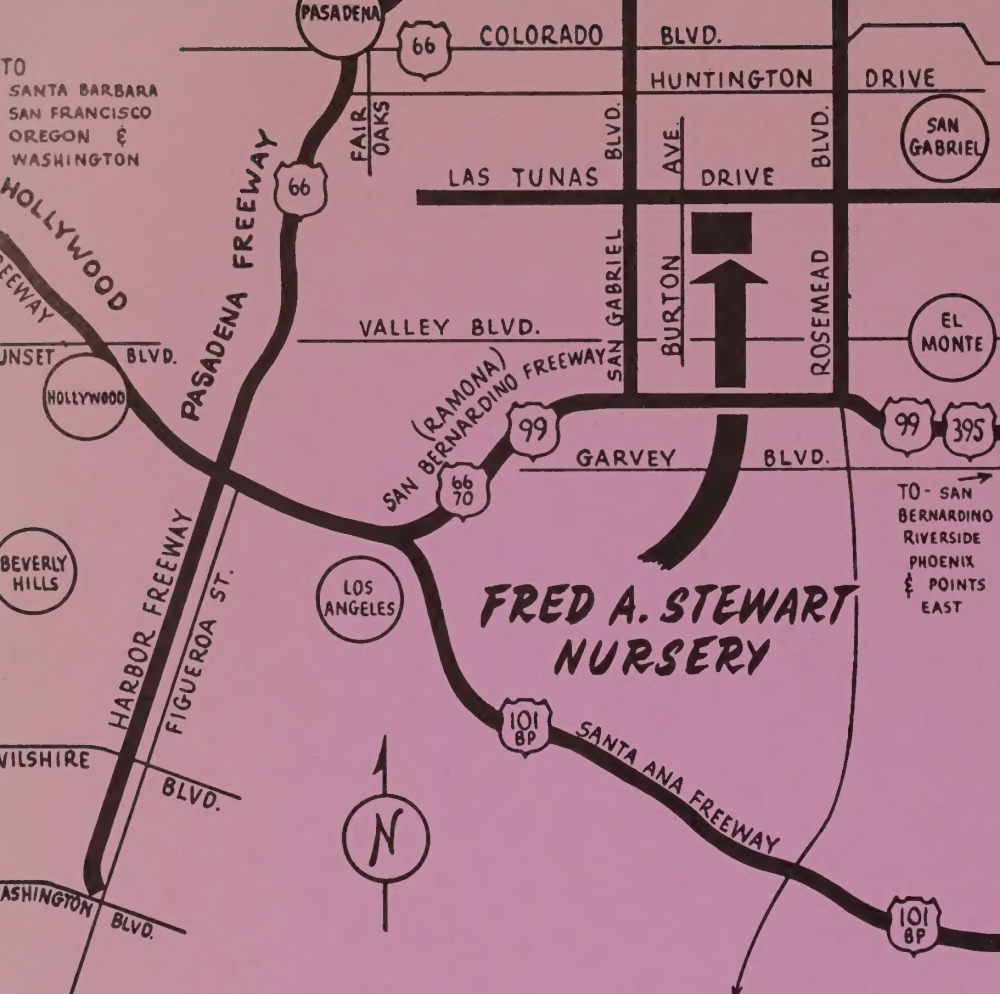
AND ALLIED HYBRIDS



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Fred A. Stewart, Inc.
San Gabriel, Calif.



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ARE EASY TO GET NO MATTER WHERE YOU LIVE

Though we would like to have you come to our nursery and select your plants, we ship every week to all parts of the United States and the world. No order is too small for our most careful consideration. By expert packing we assure safe arrival anywhere.

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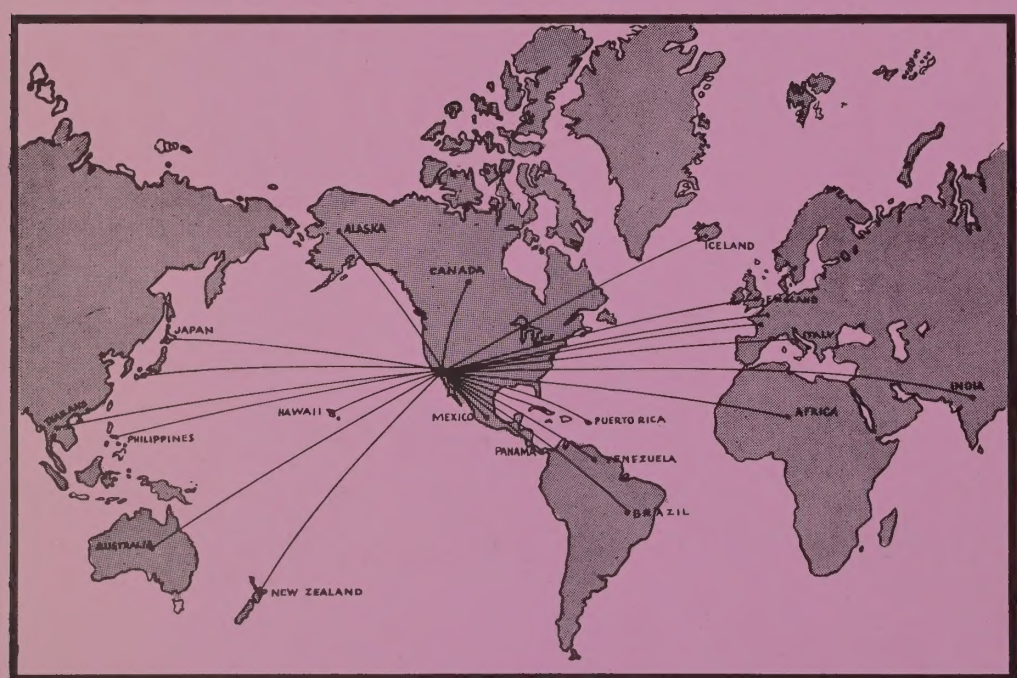
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Cover Illustration:
 LC. GOVERNOR GORE
 (Lc. Hertha x Lc. Altessa)

STEWART'S PRESENT

New Adventures in Beauty

CATTLEYA CATALOG NO. 60

Of all the orchids grown throughout the world, Cattleyas and allied hybrids, in their great and glorious variety, can best lay claim to being the queen of the orchid family. It is at Stewart's that these lovely orchids have received special attention for many years. Because of the tremendous promise that lies ahead in the breeding of Cattleyas, plus the most gratifying and increasing interest in these splendid orchids throughout the world, we are dedicated to an ever increasing and expanding breeding program.

ACCENT ON QUALITY — PLUS NEW NOVELTY TYPES

It is with special pride that we offer this listing of selected crosses in a wide range of colors, types and breeding lines. Of special interest are the many superb polyploid purple crosses. There are few crosses as intriguing as those offered from the fabulous award winning Lc. Bonanza, 'Paydirt,' AM/AOS, which created such a sensation in Western America a few short years ago, when it won so many top awards at the Western Orchid Congress. There are no more famous names in the orchid world than Lc. Bonanza, Blc. Norman's Bay, C. Joyce Hannington, Lc. Cuesta, and of course, C. Bow Bells. We realize that people's likes vary. We have exciting crosses bred from such interesting parents as Brassavola Nodosa, Sl. Psyche and others, for those who wish to join us in exploring new and exciting vistas. Of course, reds, yellows and allied crosses have come in for a full share of our attention. Regardless of whether you wish whites for a particular season, exhibition purples of award winning promise, unusual novelty crosses or a red Sophro hybrid, we are confident that this listing is one of the most comprehensive and carefully bred groups of Cattleya hybrids ever offered. The crosses have all been bred to provide orchids of utmost value to you, whether you are a small beginner hobbyist, or a large commercial grower.

SCIENCE PLUS EXPERIENCE USED TO MAKE CROSSES

These crosses represent the highest development in skill, experience and the application of scientific principles of modern day orchid plant breeding. A check through the records will show that Stewart's were one of the first commercial orchid breeders in the world to recognize and utilize in their breeding program the principles of basic genetics and modern day plant breeding.

OF PARENTAGE, BREEDING AND EXPECTANCY

For years we have felt that many lists were meaningless jumbles of names. Usually, the grower does not explain his reasons for making a cross, nor does he predict more than the general color and season. While a large number of our customers are learned growers who know what they want, even the most knowledgeable person cannot be familiar with all parents and know the multitude of genetic influences and blood lines to be found in Cattleyas and allied hybrids. We believe, when offering a cross, the grower should explain why he made it, and what he expects, as well as other data that might assist the prospective purchaser. This listing carefully follows this belief. We wish this list to be a source of general orchid breeding information, as well as a general offering of stocks. Many of our customers throughout the world keep a file of our catalogues as reference material. Information on blood lines and breeding is to be found in them, such as is not available in any other orchid literature.

STEWART CROSSES "VIGOR TESTED"

Another bonus, which you get when you purchase Stewart-bred stocks, is that they are "vigor-tested." By "vigor-tested," we mean a cross is not offered for general sale until it has proven that it can grow well. If plants are offered in seedlings which are too small, the mortality rate can be very high, and oftentimes lead to great customer disappointment. Sometimes small seedlings do not grow well because of inherent weakness (aneuploidy), which can be quite beyond the control of even an experienced grower. During the year to eighteen months, which we hold most crosses before selling, we have ample opportunity to check them for uniform growth. During this period we rule out or discard any cross, regardless of quality, that does not have uniformly good vigor. We know you benefit, because you will not have a lot of puzzling laggards in your collection, which you might nurse along and wonder why they never grow. We benefit because you, our customer, receive plants that grow well and give you maximum return in growth and beauty for the dollars which you have invested.

No order is too small or too large to be handled by us with the greatest appreciation and care. Shipments from one plant to a thousand go out every day of the week to all parts of America and the world. We look forward to being of further service to the thousands who will receive this catalogue and who are regular customers. We look forward also to being of service to the other thousands who are starting to enjoy the infinite pleasures of raising orchids.

Fred A. Stewart, Inc.

Genes Chromosomes and Quality in YOUR Orchids

HOW THE PRINCIPLES OF MODERN DAY GENETICS ARE APPLIED TO ORCHID BREEDING

All living things, both plant and animal, have the same mechanism of inheritance. In each cell of a plant or animal regardless of what organ it might be in, there is that individual basic number of chromosomes. The chromosomes in turn are made up of genes. The genes are the characteristics of the individual. At the time a cross is made half of the chromosomes are inherited by the progeny from either parent. Except for environmental influences every characteristic of a plant is the result of inheritance from the parents. In recent years this fact has been almost universally accepted by orchid growers. Progressive growers have also found there is a relationship between a certain genetic structure and superior flower and growth quality. It has been proven that many of today's finest parents are tetraploids (80 chromosomes); that is they have twice as many chromosomes as a normal plant (40 chromosomes) the resultant progeny have 60 chromosomes or half from either parent. Plants with this count are known as triploids. Triploids, for reasons not well understood, are noted for their vigor, fine, large, heavy textured flowers, and free blooming qualities. Many of the crosses we raise at Stewart's are triploids; however, tetraploid and diploid crosses are raised in special lines of breeding where triploids are not possible.

Tetraploids are extremely valuable for breeding and diploid hybrids of finest parents are extremely valuable for their high color. While triploids are clearly the most satisfactory type for many reasons, they are of little value as a parent because they are quite sterile.

Bonanza Hybrids

#S-301 Lc. Cuesta, 'Legacy' x Lc. Bonanza, 'Eta Gray,' AM/AOS

While this is the same as our #S-282, the clonal parents, in both cases, are different. Lc. Cuesta, 'Legacy' is a lovely large, dark purple, bred from Lc. Marie Dobrott x Lc. Cavalese. Interestingly, Lc. Bonanza is itself a Cavalese hybrid. The gene pool of both parents here is filled with rich coloring and exhibition qualities. The season should be late fall through early winter. 2½" Pots, \$4.50

#S-341 Blc. Mem. Crespín Rosales (Lc. Bonanza, 'Case Card' HCC/OSSC x Blc. Norman's Bay, 'Lorenzen')

Here we have a mating of two of the finest modern day Cattleya hybrids. Lc. Bonanza, 'Case Card' is a magnificent large dark purple, which consistently flowers for us in December. Blc. Norman's Bay, 'Lorenzen' is one of the most outstanding forms we have seen of this cross. The flowers are large, of splendid shape and heavy substance. The sepals and petals are rich royal rose purple. The lip is full rounded and even rich velvet purple. We have every confidence for many fine outstanding dark varieties from this cross. 2" Pots, \$3.50

#S-279 Lc. Adolph Hecker C. Porcia, 'Canizarro,' AM/RHS x Lc. Bonanza, 'Pioneer' Silver Certificate

We must express a fondness for the promise of this fine cross. We hope for a dark bifoliate hybrid of a size intermediate between Porcia and the Bonanza parent. The seedlings which we have counted here have been triploids. We have flowered one so far—magnificent!

2½" Pots, \$4.50
3" Pots, \$7.50

LABORATORY CONTROL

Polyploidy is a term frequently heard. This simply means a plant has more than the normal number of chromosomes such as a tetraploid or a triploid. It is important to remember from a practical standpoint that two important characteristics of polyploidy are heavier texture and larger size as well as greater vigor. This is where a knowledge of genes and chromosomes benefits you.

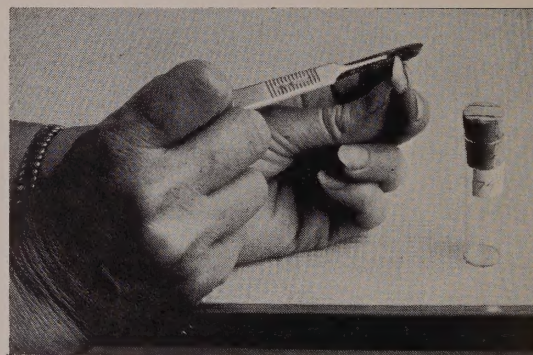
As certain genetic structure is so important in assuring maximum quality, crosses made at Stewart's are made from laboratory checked parents along genetically sound principles. Plants from each batch of seedlings are counted to see if their chromosome counts are according to the calculations for the cross. Before a parent is used we determine its chromosome structure. These counts are made by skilled technicians using a high powered microscope that costs thousands of dollars.

EXPERIENCE COMBINED WITH SCIENCE

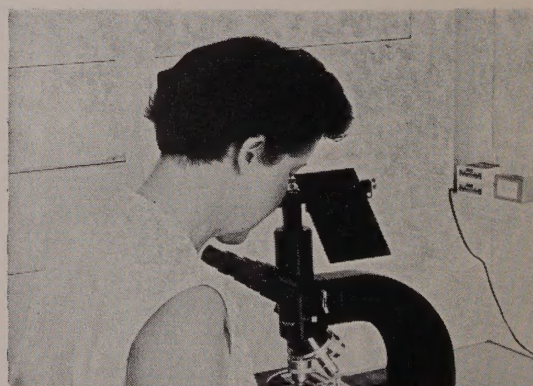
Recognizing the vast variations in nature, we realize that the laboratory alone cannot turn out a good cross. Experience with how certain parents perform is absolutely necessary in breeding fine orchids. We feel experience combined with the sound principles of modern day genetics, gives maximum assurance of producing the finest orchids obtainable anywhere.

If you want the finest you will find you are wise to buy from a firm that combines years of experience with the principles of modern day cytogenetics in breeding constantly finer orchids.

Root tip being prepared for chromosome count. Cells are crushed and stained. Chromosomes soak up dye so can be counted.

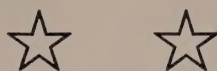


Laboratory technician using Leitz Ortholux research microscope on chromosome determination.



Fabulous New Lc. Bonanza Hybrids

For New Adventures in Breeding



Here is your chance to be as adventuresome as the early pioneers and discover a "Bonanza of quality" in one of the world's all time great Cattleya crosses. Lc. Bonanza, in the few years since the first seedlings flowered, has set new standards of excellence in the Orchid world. Various forms of this superb dark Laeliocattleya cross have won literally scores of awards including numerous Awards of Merit from the American Orchid Society, a First Class Certificate, and several Best of Show awards. With a cross such as this, a great deal of its value lies in the promise of selected forms as parents. Happily a number of the very finest forms of Lc. Bonanza are tetraploids and give seed very readily. We offer seedlings bred from Lc. Bonanza in all sizes. You will want to get a number of them.

**#S-340 Blc. Lyda Taylor, 'Carols' x
Lc. Bonanza, 'Pay Dirt' AM/AOS**

Blc. Lyda Taylor, 'Carols' is a beautifully shaped brilliantly colored brasso that flowers consistently for us in December. There are few Cattleyas that have as good a substance as Lyda Taylor. The famous Lc. Bonanza, 'Pay Dirt' appears to be a happy mate with this parent, as far as vigor of seedlings is concerned. We are confident that this cross will give us some of our best freest flowering Winter purples. 2" Pots, \$3.50

**#S-318 C. Peetersii, 'very dark' x
Lc. Bonanza, 'Mother Lode' AM/AOS**

Both parents here were superb varieties of their crosses. Cattleya Peetersii is very large, dark, rich reddish purple, and is a selected form of the famous Urmston's strain. Lc. Bonanza, of course, is one of the world's most awarded new crosses. The variety 'Mother Lode' is among the very finest. Our prediction is for many superb dark purples of exhibition and award quality. The season can be expected to be Fall and early Winter.

2" Pots, \$3.50

**#S-282 Lc. Cuesta, 'Sovereign' x
Lc. Bonanza, 'Pioneer' (Silver Certificate)**

Here is a superb dark tetraploid exhibition cross, bred from two tetraploid parents. Lc. Cuesta, 'Sovereign' is one of the finest forms of this world famous cross, which has bred such splendid new hybrids as Lc. Rita Cobb, C. Mem. Walter Armacost and many others. Lc. Bonanza, 'Pioneer' is a very fine selected form of one of the world's great Laelio-Cattleyas. The season will probably be late Fall throughout the Winter months.

2½" Pots, \$4.00

**#S-342 C. Remy Cholet, 'Brilliant' x
Lc. Bonanza, 'Pay Dirt' AM/AOS**

Remy Cholet, 'Brilliant' is one of the most colorful varieties of this famous Winter flowering Cattleya. The fabulous Lc. Bonanza, 'Pay Dirt' should contribute its massive size, rich coloring and all around general qualities to the cross. Because of the Remy Cholet parent, we feel the season should be early Winter. This cross could well start to flower nicely in December. We look for some top free flowering exhibition purples here.

2" Pots, \$3.50

**#S-300 LC. BONANZA (Lc. Bonanza, 'Etta Gray'
AM/AOS x Self)**

We have been watching this cross ever since it was made. We find ourselves increasingly intrigued with its possibilities. This cross is the result of selfing one of the finest forms we have seen of the internationally famous Lc. Bonanza. The flowers of Lc. Bonanza, 'Etta Gray' AM/AOS are very large, dark royal purple and of excellent shape and substance. Seedlings we have counted of this cross have all been tetraploids (having 80 chromosomes). The growth is strong and uniform. The foliage in practically all seedlings is very heavily colored with anthocyanin (purple sap). This generally has a relationship to, or is indicative of dark flower quality.

2" Pots, \$3.50; 2½" Pots, \$4.50

**#S-278 Lc. Joseph Hampton, 'Pageant' x
Lc. Bonanza, 'Pioneer' (Silver Certificate)**

We have every confidence that this will give us some of the finest exhibition prize winning purples in the next few years. Selected forms of Lc. Joseph Hampton, as in the variety offered here, have established themselves as top parents. We offer this superb purple cross with every confidence for those who wish the finest possible quality. Seedlings have very dark foliage, which often has a relationship to dark flower color. The season will be primarily Fall and Winter.

2½" Pots, \$4.00; 3" Pots, \$7.50

Cattleya Royalty

The most outstanding family of Cattleya hybrids are the crosses descended from C. Bow Bells.

Cattleya Bow Bells, and its illustrious progeny, are truly the Royal Family of white Cattleyas, famous for their winning ways from continent to continent.

C. BOW BELLS

If we must have a criterion by which other whites are judged, surely we would have to select C. Bow Bells. This splendid cross is bred from C. Suzanne Hye x C. Edithiae, 'White Empress,' FCC/RHS. It was registered in 1945 by Black and Flory. The plants which we offer here are divisions off unflowered plants of the famous Honolulu strain. This strain was made by Self crossing a selected fine form of one of the Black and Flory Bow Bells. We have taken some of the most vigorous, near flowering size, plants of this Honolulu strain and divided them into two and three bulb divisions. These plants can be expected to flower, on the average, in about twelve months. We are confident that many superb exhibition and breeding quality varieties will come from the plants which we offer here. Season, variable though late fall and early winter will predominate. Most counts have shown these to be near tetraploids (around 80).

Well established 2-3 bulb plants, 4½" - 5" pots, \$20.00



BOW BELLS



C. BOB BETTS, (C. Bow Bells x C. Mossiae, 'Wagneri')

Surely in the consideration of the world's fine white Cattleyas, C. Bob Betts must now be given its place. Flowers of selected forms of C. Bob Betts are large and have the full round shape and heavy texture to satisfy the most discriminating connoisseur. As could be expected, many of the finest forms of Bob Betts have been used for breeding, and are proving to be outstanding parents. Here, as with Bow Bells, we offer divisions off unflowered, near flowering size, plants.

Well established 2-3 bulb plants, 4½" - 5" pots, \$20.00

#S-168 C. MADELEINE KNOWLTON (C. Bow Bells, AM/AOS x C. Joyce Hannington, 'Sarras')

This superb white cross might be called a natural one to make, for both parents are world famous for their quality. The plants which we have flowered so far have had flowers of excellent shape and unbelievably heavy substance. The flower sizes range from medium to very large. As is characteristic of most polyploids, this cross grows somewhat slower than diploid crosses, though it is still very strong. Due to the cytology of both parents, a number of Aneuploids (plants with odd chromosome numbers) showed up in the early seedling stages. These have been thrown out, due to their poor vigor, however. The plants which we offer are, in practically all cases, large enough to flower within 12 months. Other plants of this cross range from triploids through to tetraploids and pentaploids. The flowering season is September-December, though a few flower throughout the Winter.

As a number of this cross are aneuploids (uneven chromosome counts), we only offer divisions off **selected good varieties**. These are mature 2-3 bulb divisions in 4½" - 5½" pots. The price range is determined by the quality of flowers.

We offer plants marked "good" at \$25.00

"very good" at \$35.00

"fine" at \$50.00

**#S-271 C. Florence Patterson, 'very large' x
C. Bob Betts, 'Williamsons'**

We have not seen a white Cattleya to surpass the magnificent large, shapely white Bob Betts, which we have used here. Cattleya Florence Patterson is a large fall flowering white Cattleya that spaces its flowers very well on the stem and is a vigorous grower. It is important, when breeding with polyploid whites of the Bow Bells, Bob Betts complex, that the diploid parent space its flowers well on the stem. If Bow Bells, Bob Betts and others of this type have a fault, it is that they are inclined to crowd on the stem at times. In breeding a first class cross, this must be compensated for by the other parent. This cross could well take its place as one of the great whites of the next few years. The season will be primarily fall.

2" — \$3.50; 2½" — \$4.50



BOB BETTS, 'WHITE KNIGHT'

**#S-292 C. PEACE (C. Joyce Hannington, 'Eureka' x
C. Empress Bells, 'White Satin')**

Here is a cross for the connoisseur who is looking for superb exhibition quality in a white Cattleya. Joyce Hannington, 'Eureka' is one of our most magnificent whites, having massive large flowers of superb balance and sparkling quality. C. Empress Bells, 'White Satin' is bred from Bow Bells x Edithiae 'White Empress.' The season, fall and early winter. The quality assured.

2" — \$3.50; 2½" — \$4.50



JOYCE HANNINGTON, 'EUREKA,' Parent of #289

**#S-289 C. Bow Bells, 'Cunningham' x
C. Pamela Stewart, 'October'**

Here is a very promising fall flowering Bow Bells cross. We hope Pamela Stewart will swing the season toward September.

2" — \$3.00; 2½" — \$4.50

**#S-264 C. Bob Betts, 'Mara Dee,' Silver Certificate
Orchid Society of Southern California x
C. Ann Alberts, 'Pristine'**

The Bob Betts used in this cross is one of the finest whites we have seen. Cattleya Ann Alberts is a lovely large selected form of this outstanding white cross, which is bred from C. Edithiae x C. Souvenir de Louis Sander. We are sure there will be many fine exhibition whites here. The season can be expected to run mainly throughout the early winter.

4" — \$12.50

**C. MARY LYNN McKENZIE (C. Swan x
C. Bob Betts, 'White Christmas')**

Here is a remake on a very fine white which was originally made in Florida, and has created quite a sensation. Both parents here were superb. We have every confidence that this particular strain will gain a good name in its own right.

4" — \$15.00



MADELEINE KNOWLTON
(C. Bow Bells x C. Joyce Hannington)

Novelty Bifoliate . . .

in spicy lacquered yellows, burnished

golds and vibrant unusual colors

#S-321 C. Winnietha, 'Lilacina' x Bowringiana, 'Coerulescens'

We have been intrigued with the breeding of blue Cattleyas for a number of years. We feel this cross will be a welcome development in that color section. Cattleya Winnietha, 'Lilacina' is a lovely lilac with white lip, bred from C. Harrisoniana. The Bowringiana parent is slate blue with a violet purple lip, which we have used in several crosses. The color range of this cross will probably be from lilac through slate blue colors. We feel this will appeal to those who want something unusual, but which is still charming and distinctive. Those who are intrigued with the blue section of Cattleyas will, of course, wish to get a few also. Season: Summer - Fall. 2½" Pots, \$4.75

Limited supply. Available Feb., 1960



#S-369 C. Iris x C. Guttata, 'Green'

Both parents of this fine cross are bifoliate and are currently receiving a great deal of attention from hybridists. The expectancy is for a high percentage of yellows and greenish yellows of very good substance. Flowers will be carried on good strong spikes with from six to fifteen on a spray. This should be a very unusual and distinctive cross of great charm. The season, summer. 2" Pots, \$3.00; 2½" Pots, \$4.00



#S-206 Blc. Golden Bear (C. granulosa x Blc. Golden Myth)

C. granulosa is an attractive olive green bifoliate. It has been crossed here with the very popular all yellow Blc. Golden Myth. The seedlings which we have flowered of this cross have been quite clear colored and in various shades of light yellow. The flowers of all which we have seen have had the isthmus lip of the granulosa parent. A charming bifoliate cross, which should appeal to those who like summer flowering novelties.

3" Pots, \$6.00; 4" Pots, \$10.00

#S-367 C. Barbara Billingsley x C. luteola

Cattleya Barbara Billingsley is a large free flowering conventional winter white, bred from C. trianae alba, 'Broomhills.' Cattleya luteola is a charming yellow Cattleya species. The Barbara Billingsley parent is a true albino, having no purple in its make-up. We are frank to admit the speculative qualities of this cross. We expect the colors to range from yellow through to very light cream yellows. The size should be somewhat intermediate between the two parents, on the average. The season will probably be winter and early spring. An excellent speculation for those who like the unusual. 2" Pots, \$3.00



#S-368 Bc. Binosa (Brassavola nodosa x C. bicolor)

This is a repeat using different clonal parents of the original strain on this cross. B. nodosa is one of the most charming species. Its lovely white flowers have long, graceful sepals and petals. The lip is white heart shape, but is drawn out to a long graceful point at its base. Cattleya bicolor is a well known olive green species, which is one of the progenitors of most of our modern day Yellow Cattleyas. It will be interesting to study the parental dominances. Under any condition, we feel the cross will have the charm and distinction so that you will wish to add a few seedlings to your collection. 2½" Pots, \$4.00



#S-373 C. Iris x Lc. Old Forester

Here we have a very interesting cross which has many analogies in past breeding. Lc. Old Forester is a very fine exhibition purple, while Cattleya Iris is bred from C. bicolor x C. Dowiana. The Dowiana will intensify the purple coloring of Old Forester, while C. bicolor can be expected to show its influence in flowers of medium size, of very heavy substance, with both isthmus and semi-isthmus lips. The season can be expected to be summer and early fall. 2" Pots, \$3.00

THE PRECIOUS JEWELS OF YOUR COLLECTION

Here are excitingly different crosses to add spice to your collection. We are certain they will capture your heart with their intriguingly different charm and beauty. These hybrids will add spicy richness and dramatic contrast to your collection. Admittedly, not everyone will go for these provocative novelties, but nine out of ten greenhouse visitors will stop and exclaim over them.

#S-366 C. Loddigesii x C. Forbesii

Cattleya Loddigesii is a lovely lilac bifoliate Cattleya that flowers in late spring and early summer. Cattleya Forbesii is one of the bifoliate Cattleya species also; however, the sepals and petals are greenish yellow, while the isthmus lip is white. The seedlings, of course, are bifoliate and we are confident the flowers will be very heavy textured and typical bifoliate in size, shape and substance. The coloring will range from lilac through light cream. Plants are very strong growers. Summer.

2½" Pots, \$4.00

#S-203 BLC. SUTTER'S FORT (C. Bicolor x Blc. Midas)

Here is a most happy combination in yellow and bright bronzy yellow, which has a tremendous amount of charm. The bifoliate plants bear medium sized brightly colored flowers throughout the summer and early fall months. The Blc. Midas parent appears to have imparted an especially vivid coloring to this cross. As could be expected, the lips are dark rose with the isthmus shape of the bicolor parent. 4" flowering size — \$10.00

#S-370 C. Loddigesii x C. Aclandiae

Here is one of our most intriguing crosses. Loddigesii is a lovely lilac bifoliate. The dwarf Brazilian Aclandiae is one of the most unusual of Cattleyas. The plant grows to a height of 6" - 8" with slender bifoliate stems. Flowers 3" across, olive green with purple overlay areas. The lips are magenta purple. We expect plants of somewhat taller growth and freer bloom, due to the Loddigesii parent. There are sure to be conversation pieces of your collection.

2" Pots, \$3.00

#S-343 Blc. Clayton Chong, 'Blaze' x C. Luteola

C. Luteola is a small all yellow Cattleya species, which appears to be more closely related to the Laelias than the genus Cattleya. We have crossed this on to a large salmon colored Blc. Clayton-Chong. The growth habit so far on the seedlings seems to favor the Luteola parent.

2" Pots, \$3.00



BRASSAVOLA NODOSA

SPECIAL NOVELTY GROUP

#60-1

One each of 10 crosses listed. A \$43.75 value,

10 plants
for only **\$37⁰⁰**

You save \$6.75

Your delight with these crosses will grow with the years.

Regal Exhibition Purples

the highest development of the skills of the Orchid breeder

Of all Orchids grown and known throughout the world, the stately purple Cattleya with its infinite regal shades, is still the most popular. Because of the attention that hybridists have lavished on this group, we have some of the finest parent material with which to breed the great new crosses for your collection. You can day dream while these seedlings are growing, secure in the knowledge of their good breeding.



LC. MARIAN ANDREWS

#S-176 Lc. Trails End x C. Peetersii, 'very dark'

Lc. Trails End is a superb hybrid, bred by Mr. Joseph Urmston from Lc. Joseph Hampton x C. Labiata. We crossed an excellent form of Trails End by a very, very dark form of his famous strain of C. Peetersii. The season will be throughout late fall.

5" pots, \$17.50; 6" pots, \$22.50

#S-162 Lc. Gertrude Hampton, 'very fine' x C. Amabilis, 'Content'

The variety 'Content' is perhaps the finest form of the famous Urmston strain of C. Amabilis. We have already flowered several plants of this cross, and the results have been most spectacular. It appears as though the season will run from June through September.

5" pots, \$15.00; 6" pots, \$17.50

#S-167 LC. LAS VEGAS (C. Labiata F-2 x Lc. Hilary, FCC/RHS)

Lc. Hilary's claim to fame is well founded, for it has been the parent of many outstanding crosses. Many of its progeny, too, have gone on to gain fame in their own right, such as Lc. Joseph Hampton. C. Labiata is the species which has played a dominant role in many of our finest fall flowering purple Cattleyas. The results on this cross could be very outstanding. The season is fall and early winter.

5" pots, \$15.00; 6" pots, \$17.50; 7" pots, \$22.50



LC. TRAILS END

**#S-337 Lc. Alan a Dale, 'Christmas' x
C. Estelle alba, 'Cynosure'**

Surprisingly, some very good hybrids have been obtained where whites have been crossed with purples, as here. Lc. Alan a Dale is a beautiful richly colored, heavy textured purple that flowers consistently in December. Cattleya Estelle alba, 'Cynosure' is a famous tetraploid white. The expectancy is for a large, heavy textured medium lavender that should produce well for the Christmas - New Year's season

2" pots, \$3.00; 2½" pots, \$4.00

**#S-250 LC. BRIDGET STEWART (Lc. Hiramii x
Lc. Desna, 'Encore')**

Here we have a very happy combination in an exhibition purple for spring. We are especially fond of Lc. Desna, which is bred from Lc. Dominiana x Lc. General Maude, for the full round, flat shape which it imparts to its progeny. This cross will prove to be especially valuable because of its season, which appears to be shaping up throughout the spring months.

Flowered Plants 6" pots only, \$27.50

**#S-266 Lc. Mamie Eisenhower, 'solid lip' x
C. Tityus, 'very fine'**

One of the most difficult times of the year in which to obtain a good purple is the spring months. Lc. Mamie Eisenhower is a very lovely rich spring flowering purple. C. Tityus is one of the most famous of all Cattleya parents. We recommend this to those who wish a good spring flowering purple.

4" pots, \$12.50

**#S-286 Lc. Gitche Manito, 'San Gabriel' x
C. Royal Vestment**

The pod parent used here was also used to make our famous #S-86 Marian Andrews. Lc. Gitche Manito, 'San Gabriel' is a superb tetraploid, whose full round richly colored flowers have perfect balance and are well spaced on the spray. C. Royal Vestment is a very large, spectacular dark, bred from C. Peetersii x C. Labi-Royal. We expect a fine exhibition laeliocattleya of rich coloring, which will normally flower in the fall, though it may be nicely controlled for Christmas bloom.

2½" pots, \$4.50; 3" pots, \$7.50

**#S-181 C. labiata, 'very fine F-2' x
Lc. Gertrude Hampton, 'very dark'**

Many outstanding Cattleyas have been bred using the basic formula of an outstanding species on one side with a fine hybrid as the other parent. Lc. Trails End, C. Bob Betts, Lc. Joseph Mark and others of comparable quality have proven the validity of this formula. As there is Laelia tenebrosa in the Gertrude Hampton blood line, some forms of this cross have had very pleasing flame overtones with blue-purple shadings. The season will be fall and early winter. We recommend this for those who wish exhibition quality.

5" pots, \$15.00; 6" pots, \$17.50

**#S-288 C. Royal Vestment, 'Grace' x
Lc. Joseph Hampton, 'Stewart's'**

We have again used our spectacular tetraploid, Lc. Joseph Hampton, 'Stewart's' onto one of our largest, showiest Cattleya Royal Vestments. This cross was bred for exhibition quality. The season will be September-December.

2½" pots, \$4.00; 3" pots, \$6.00

Available March, 1960



LC. JOSEPH HAMPTON, 'STEWART'S'

**#S-290 C. Labi-Royal, 'dark Symmetry' x
Lc. Joseph Hampton, 'Stewart's'**

C. Labi-Royal, 'dark Symmetry' is a round, dark flat flower of exceptional shape. We are especially fond of C. Mount Royal hybrids as here, because of their round shape and flat carriage. Lc. Joseph Hampton, 'Stewart's' is a tetraploid and is one of the finest forms of this world famous cross. Our expectancy is for superb exhibition purples of large size with fine shape and especially bold, dark, velvety lips. Seedlings of this cross, which we have counted, have been triploids (having 60 chromosomes). We expect this cross will start flowering in late fall and flower throughout the early winter months. Nicely controllable for Christmas.

2½" pots, \$4.00; 3" pots, \$6.00

**#S-295 Lc. Dorothy Fried, 'Royal Robe' x
Lc. Joseph Hampton, 'Stewart's'**

A superb exhibition Laeliocattleya. Interestingly, some of the best Cattleya parents have been triploids, as is the Dorothy Fried parent here. The second parent, Lc. Joseph Hampton, 'Stewart's' is a proven tetraploid of outstanding quality. Seedlings of this cross grow very well and we have every confidence for many exhibition quality purples. Though we feel the season will be variable, we have found that the Lc. Dorothy Fried, 'Royal Robe' flowers regularly for us every May and June. It is quite possible that many seedlings of this cross will flower in the spring months and again in the fall or early winter.

2½" pots, \$4.00; 3" pots, \$6.00

Brilliant, Colorful, Mature, Flowering-Size Cattleyas

A special listing of selected "VIGOR TESTED - QUALITY PROVEN" PLANTS.

Please Note: All plants offered here are flowering size. Difference in price on a particular variety indicates general size of plant, i.e., medium or large. Larger plants can be expected to bear more blooms on next flowering.

C. ACOLITA (C. Tityus, 'Patriarch' x C. Trimos)

Spectacular large mauve purple flowers December, January, February. Dark lips with rich yellow eyes. -----\$12.50, \$15.00

C. ANGEL ISLAND (C. Estelle alba x C. Nathalie Dekens)

Here is one of the loveliest spring and early summer flowering white Cattleyas we have seen. The growth is excellent. The large shapely white flowers are well carried on strong stems. The quality we specially like about Angel Island is the snowy whiteness of the blooms. Oftentimes there is little or no lip coloring, a characteristic inherited from intermedia alba, which is one of the progenitors of Nathalie Dekens.

3 Bulb Flowering Size Divisions — \$17.50

4-5 Bulb Flowering Size Divisions — \$25.00

(Information on selected varieties on request)



C. ANN ALBERTS (C. Souvenir de Louis Sander x C. Edithiae)

This is a companion cross to C. BRUNO ALBERTS. This lovely variety is also compact growing and free blooming. The season for this handsome white is throughout the winter and early spring. -----\$17.50, \$22.50

C. ARDMORE ALBA (C. Mossiae, Reineckiana, 'Young's' x C. Enid alba)

Wonderful Spring white with crimson splashed lip. Lots of 6" flowers on compact plants. A must. -----\$12.50, \$15.00, \$17.50

C. BANDIT (C. Nebo x C. Tityus)

Free blooming, richly colored. Winter and Spring purple. Excellent producer. -----\$10.00

C. BELGICA (C. Enid x Remy Cholet, 'Brilliant')

Famous richly colored free blooming Winter and Spring purple. Easy to grow. -----\$12.50, \$15.00

C. Bow Bells x Brasavola digbyano

The world's most famous white Cattleya crossed with this famous fringed lip species. Flowers light rose, lips heavily fringed. -----\$15.00, \$17.50

LC. BEMBRIDGE, semi-alba

The divisions we offer here of this fine white with solid purple lip are all from one original plant. Can best be described as a very good SNOWDRIFT. The season: winter.

3-4 Bulb Plants — \$22.00

C. BRUNO ALBERTS (C. Joan Manda x C. Souvenir de Louis Sander)

A compact growing, vigorous, free-blooming white for Winter and early Spring. Very worth while. -----\$15.00, \$20.00

C. CHICKAMAUGA (C. Ardmore x C. Thetis)

Spring months are hard to fill with a good purple. This is one of the best for this season. -----\$10.00, \$12.50

LC. R. J. CHRISMAN (Cuesta, 'Colossal' x C. Ardentissima, 'Colossal')

Rich regal red purples. Season: Fall - Winter. Many exhibition prize winners here. -----\$15.00, \$17.50

C. EDDIE RICKENBACKER (C. Mossiae x C. Thetis)

This and Chickamauga are two of the best we have seen for Spring bloom purples. -----\$10.00, \$12.50, \$15.00

C. ELEANORE (C. Gigas, fine x C. Hardyana, very dark)

Repeat on famous Spring and Summer cross. Superb showy purples with tremendous velvety dark lips.

-----\$10.00, \$12.50, \$15.00

C. FAMOSA (C. Remy Cholet x C. Tityus, 'Patriarch')

Companion to Acolita #37-3. Bloom January, February, March. -----\$12.50, \$15.00

#S-70 LC. FLYING CLOUD (C. Mrs. F. Knollys alba x Lc. Winema)

Handsome large white with purple lip flowers. Winter and Spring. Sensational. -----\$12.50, \$15.00, \$20.00

LC. INDRA (Lc. Integrity x C. Prospector)

Strong growing, richly colored purple for Winter. Many with rich yellow eyes. -----\$12.50, \$17.50

**C. IRENE, 'PURITY' (C. Mossiae, 'Wagneri' x
C. Suzanne Hye)**

A specially selected form of this now rare Spring and early Summer white Cattleya.\$12.50, \$15.00

**#S-86 LC. MARIAN ANDREWS (Lc. Gitche Manito
x C. Amabilis)**

Handsome exhibition purple. Variable as to season, but many throughout Winter and Spring.\$12.00, \$15.00, \$17.50

C. MEM. W. A. WAY (C. Eucharis x C. Edithiae)

Free blooming, heavy producing white for March-April.
\$10.00, \$12.50, \$17.50

**LC. OAKLAND (Lc. Buccaneer, 'Swarthy' x
Lc. Mary Rose, 'Exquisita' AM/AOS)**

A very lovely large shapely dark exhibition purple for Summer and early Fall. Several of this cross have won awards.
\$15.00, \$20.00, \$25.00

LC. QUADROON (Lc. Susan x C. Nigritian)

This splendid cross has earned a good name for itself as a fine large exhibition purple. The plants which we offer here are of selected good varieties that bear large richly colored flowers on strong plants. The season: September-October-November.\$15.00, \$20.00, \$25.00

**#S-24 LC. RAINBOW BRIDGE (Lc. Integrity x
Ardentissima, 'Blueblood')**

Large, showy dark exhibition flowers. Fall and early Winter.
\$12.00, \$15.00, \$20.00

C. ROEHRSIANA (C. Hardyana x C. Mendelii)

Desirable purple for December, January. Flowers well for us for December.\$10.00, \$12.00, \$15.00

C. ROYAL VESTMENT (C. Labi-Royal x Peetersii)

Regal purple. 6" to 8" flowers, dark velvet lips. Fall, Winter.
\$10.00, \$15.00, \$20.00



C. TRIMOS ALBA



C. TETHYS

C. SERENITY (C. Prospector x C. Santa Monica)

Handsome Winter bloomer. Flowers light purple with darker lip.\$10.00, \$15.00

**LC. SPINDRIFT (C. Ville de Liege alba x
C. Brussels alba)**

A large free flowering white with purple lip for August and September, when so many weddings are held.
\$10.00, \$12.50, \$15.00

**C. TETHYS (C. Ardentissima, 'Colossal' x
C. Annie J. Lines)**

Plants offered here are of the original strain which is unsurpassed for a uniformly dark Cattleya. Attempts have been made to repeat this cross, without the high success of the original.\$15.00, \$20.00, \$25.00

LC. TEXAS (Lc. Conquistador x C. Fabianid)

Spectacular large purple. Strong growing, free blooming. Season: Fall.\$10.00, \$12.00

**C. TRIMOS ALBA (C. Trianae alba, 'Broomhills' x
C. Mossiae, 'Wagneri')**

A very satisfactory white with yellow lip, which freely flowers for March and April. If you like to grow your Cattleyas into specimen plants, here is a worthy subject.\$15.00, \$20.00

C. VILLE DE LIEGE (Peetersii x Gigas, 'Meteor')

Spectacular free blooming large purple for May, June, July. Light to very dark reddish purple. Fragrant.\$10.00, \$12.50

LC. VOLCANO (Lc. Detta x C. Fabia)

Here we have another lovely, richly colored exhibition purple. Those who like large showy flowers will be pleased with this. The season: throughout the Fall.\$15.00, \$20.00, \$25.00

Vibrant Red Sophros

and iridescent yellow-orange Laelia hybrids

*The rarest, most charming treasures
of your collection*



No type of breeding has more excited orchid growers everywhere than have the luminous shimmering hybrids bred from SLC. ANZAC, 'ORCHIDHURST,' FCC/RHS, and the orange and yellow Laelias. Where else can you find such vibrant beauty and rich coloration as in these hybrids which are noted for their exquisite and treasure-like qualities? If you would like to wave a magic wand in your greenhouse and transform it into a treasure chest of beauty, add these hybrids to your collection.

#S-336 Lc. Orange Gem, 'Delight' x Slc. Anzac, 'Orchidhurst,' FCC/RHS

Lc. Orange Gem is one of the fairest jewels in our crown of Cattleya stud plants. The flowers of this variety are about four to five inches across, of fine shape and lovely rich vibrant orange coloring. It has been found that some of the most outstanding results in breeding top orange and red Slc's, have been obtained where a strong orange and red Laelia influence has been combined with Slc. Anzac, 'Orchidhurst.' Our expectancy here is for orange, yellow, red, salmon and allied colors in the main, though there will be a few lavender reds.

1 3/4" — \$2.25; 2" — \$3.50

Available in March, 1960

#S-313 Lc. Gitche Manito, 'very fine' x Slc. Lindores, 'Red Satin'

We find it easy to be enthusiastic over this cross. The Gitche Manito parent is bred from Lc. Morvyth x C. Gay Gordon and has proven to impart very rich coloring to many of its progeny. Lindores is among the finest of the so-called red Slc's and is bred from Lc. Ishtar by Slc. Anzac. Because of the intense color inherent on both sides, we are confident of vivid rich colors from dark red purple through to some prize winning fire red Slc's.

2" Pots, \$3.50; 2 1/2" Pots, \$4.50

Available in March, 1960

#S-316 C. Henrietta Japhet x Sl. Psyche

The Psyche parent is tomato red and has no Cattleya in its breeding. It is bred from Sophronitis grandiflora x Laelia cinabarina. It is one of the progenitors of most of our finest modern day sophro hybrids. This charming, richly colored plant has been crossed with one of the best known white cluster Cattleyas. Analogous lines of breeding have shown that a cross of this type will give a high percentage in orange, yellows, creams, salmon and various combinations of these basic colors. Due to the fact that Sophrolaelia Psyche only grows about six to eight inches high, the plants of this hybrid will probably be from six to ten inches high on maturity. A few seedlings of this cross could well prove to be the gems of your collection.

2" Pots, \$3.50

Available Now

3" Pots (plants are dwarf but can be expected to flower in 18 months or less) \$5.00

Available in March, 1960

#S-317 Sl. Psyche x Brassavola digbyano

Lowiara is the hybrid genus formed by combining Sophrolaelio Brasso. Psyche is our rare tomato red primary hybrid that is one of the progenitors of so many of our best red Sophro crosses. We expect mostly oranges, though there will be a wide range of shadings in allied colors, from yellow through to purplish orange. This cross is sure to be of interest to the connoisseur who likes something different. Of course, it will be of value to hybridizers, who wish to use selected forms for breeding. Because of the parentage, this cross can be expected to be quite dwarf. It is our hope that the fimbriated (fringed) lip of the digbyano parent will show up in a number of the progeny. The orange of the Laelia can be expected to be quite dominant.

2" Pots, \$3.50

#S-277 Lc. Golden Gate x Slc. Anzac, 'Orchidhurst,' FCC/RHS

Slc. Anzac, 'Orchidhurst' is a magic name in orchid breeding. Some of the most outstanding results have been obtained in the breeding of Sophro crosses where the red Slc. influence has been combined with yellow Laeliocattleyas as we have here. Lc. Golden Gate, which was the pod parent, is a lovely yellow, bred from Lc. S. J. Bracey x Lc. Isotta. When Slc's are crossed with yellow Laeliocattleyas, the yellow parent has the effect of intensifying the color. Many ruby reds, flame reds, orange reds, oranges, yellows and allied colors can be expected from this cross. Though admittedly sophro breeding is more speculative than other lines of breeding, the rewards can be extremely high. We predict this will be one of our best selling crosses.

2" Pots, \$3.00

3" Pots, \$6.00

4" Pots, \$12.50

Plants in 5" Pots with expectancy to flower in about one year — \$17.50

c. *Los Gatos*

a great exhibition Winter and Spring White.

#S-150 C. LOS GATOS (C. Barbara Billingsley x C. Estelle alba, 'Cynosure')

Of many thousands of plants raised of the fine cross C. Estelle alba, only three or four, through a fortunate trick of nature, have turned out to be tetraploids (having 80 chromosomes). Happily, each of these has proven to be a superb parent, giving rise to progeny of large size, heavy substance and fine shape, along with other superior plant and flower qualities. Of the entire cross the form Estelle alba, 'Cynosure' has gained the greatest measure of fame. When mated with C. Barbara Billingsley, as in the Los Gatos which we offer here, the results have been most outstanding. We are confident that Estelle alba, 'Cynosure' will give rise to a line of hybrids which will provide superb Bow Bells quality throughout the winter months, when the so-called Bow Bells hybrids are not flowering.

The plants of the polyploid strain of Los Gatos, which we offer here, are splendid growers and very rapidly develop into specimen plants. A number of this cross have won awards on their first bloom. Their growth habit is very compact and vigorous. On the basis of the plants which we have seen in bloom so far, the cross flowers quite heavily in December with many others spread out through the spring months through Mother's Day. Strong 3-5 bulb divisions of proven superior varieties:

Good, \$25.00
Very Good, \$35.00
Fine, \$50.00
Available March 1960.

#S-334 C. Bow Bells x Estelle alba, 'Cynosure'

This cross should be a most outstanding exhibition white Cattleya, for it combines two of the finest parents in the world today. The C. Bow Bells is a fine selected form of the original Black and Flory strain. The tetraploid Estelle alba is our great favorite. The season should be late fall through winter and early spring.

2" — \$3.00
Available March 1960.



C. JOYCE HANNINGTON



C. LOS GATOS

#S-398 C. Joyce Hannington, 'very fine' x C. Alcimeda alba.

We are certain this cross will provide some lovely large whites of exhibition quality. Because of the parentage of Alcimeda, gaskelliana x Labiata, there is a very strong possibility that this cross could flower very heavily around September. If this is so, it could well be one of the most valuable crosses for those who wish whites for September. The gaskelliana parent of Alcimeda is a true albino and is a major influence in late summer white Cattleyas.

2" pots, \$3.00

Available after March 1, 1960.

#S-194 C. Joyce Hannington, (C. Barbara Dane, 'Perfecta' x C. Snowdon, 'Mutchs')

This is a repeat, using the same parents as were used to make the original cross, which was registered in 1945. C. Joyce Hannington is recognized as one of the finest white Cattleyas in cultivation. Many forms have won awards throughout the world. The season is September-October-November primarily, though a few run into early winter. We offer well established 3 mature bulb division off good proven varieties.

Plants marked "Good" \$25.00

"Very Good" \$35.00

"Fine" \$50.00 up

Make your greenhouse glow!



Brilliant, sunny YELLOWS, intense deep golds, sparkling burnished coppers, refreshing cool lemon tones, smooth, rich light apricots, spicy ginger colors — All these are yours from the crosses we offer here. For a major color thrill, we recommend these yellows . . . Conversation pieces par excellence.

#S-364 Blc. Helen Morita, 'Pencalls' x Self

The parentage of Blc. Helen Morita is Lc. Gillian x Blc. Consul Grieg. Here, however, we have selected a very lovely large yellow Helen Morita and crossed it back onto itself. According to the laws of genetics, there will be a goodly number of this cross which will resemble the Helen Morita parent. The balance can be expected to be re-segregated and show many of the characteristics of either parent. The cross should have value to those who wish a good yellow Brasso or to the hybridizer or student who is intrigued with self crosses.

2" Pots, \$3.50; 2½" Pots, \$4.50

#S-346 Blc. Clayton Chong, 'Glowing Embers' x Lc. Orange Gem, 'Delight'

Blc. Clayton Chong is a magnificent, large, shapely burnt orange brassolaecattleya. We especially value it as a parent because of its heritage of yellow and bronze coloring from Blc. Chief Joseph x Blc. Ventres. Lc. Orange Gem, 'Delight' is a medium size vibrant dark orange with fine red lip. It appears to have been a happy mate with the Clayton Chong, for the seedlings of this cross are very strong growers. Our expectancy here is for medium size flowers, up to six and eight on a stem, mostly in orange, yellow orange, flame and allied colors. The season, throughout fall and early winter.

2" Pots, \$3.50; (2½" Pots, \$5.00, available March, 1960)

#S-330 Blc. Wren x Lc. Page Platt

Here is a most intriguing yellow cross, which has in its breeding C. Hardyana alba, C. Dowiana, and Laelia cinnabarina.

3" Pots, \$6.00

#S-331 C. Bow Bells x Lc. Amber Glow

Here we have a famous white polyploid by lovely orange-yellow Amber Glow. Admittedly, there is a higher element of speculation here than in other crosses; however, this is a cross to be flowered and from which the best varieties should be kept for further breeding, or for growing on as selected plants.

3" Pots, \$6.00

#S-332 Blc. Zanturano, 'Laburna' x Potinara, Red Friar

The Zanturano parent is noted for the brilliance of yellow coloring in its entire blood line. Though Zanturano and its antecedents are not too well known in America, it represents some of the best yellow breeding to date. The Potinara Red Friar, of course, is a sophrolaelio brasso Cattleya, bred from Blc. The Friar x Slc. Vulcan. Interestingly, Vulcan goes back to Slc. Anzac x Lc. Dominiana. In our #S-332 we have the basic yellow crossed by a hybrid having red Slc. blood. The expectancy is for orange-yellows through to purples with strong yellow and red Slc. overtones. There could be some real outstanding things here.

3" Pots, \$7.50; 3½" Pots, \$10.00

#S-249 Lc. Amphion (L. tenebrosa x Lc. S. J. Bracey)

This cross has proven to be a happy combination. The size, shape, richness of color and excellent keeping qualities have surpassed our expectations. In practically all cases so far, the colors have been very rich, dark, golden bronze, greenish bronze or golden yellow. The lips, with few exceptions have been full, round and solid dark purple with little, if any, yellow in the throat. Due to the great vigor of the Laelia parent, practically all seedlings of this cross are fine growers. Flowers are large and average from two to four on a spray. Season late summer through winter.

4" Pots, \$12.50; 5" Pots, \$17.50; 6" Pots, \$22.50

#S-247 LC. SANDRA OZELLA (Lc. S. J. Bracey, 'High Noon' x C. Aurea, 'Ironclad')

This is considered by many who have seen it to be the finest strain yet made of this well known cross. The S. J. Bracey parent is a very famous tetraploid yellow with crimson lip. Cattleya Aurea, 'Ironclad' is the result of crossing two very fine Aureas. The form 'Ironclad' which we used is rated as one of the best forms in cultivation of this species. Practically all of the plants which have bloomed so far, have had large flowers, of very fine shape with bright yellow sepals and petals and fine shapely crimson lips. We are confident that many prize winners will be flowered from our strain of SANDRA OZELLA within the next few years.

3½" Pots, \$10.00; 4" Pots, \$15.00

Invest in Beauty

The nine crosses offered on this page are as exciting and promising a group of *Cattleya* hybrids as are available anywhere at any price. The colors and expectancies range from the most exquisite exhibition purples for Christmas through to lovely large whites for June and vibrant oranges and yellows for summer and fall.

(Please note all crosses on this page available on or about June 30, 1960.)

#418 C. Mount Shasta, 'Dunsmuir' x C. Henrietta Japhet, 'Colossal.'

We feel this will be one of the finest bifoliate white spray *Cattleyas*. Mount Shasta, 'Dunsmuir' is a lovely large shapely white of exceptional whiteness. C. Henrietta Japhet, 'Colossal' is perhaps the finest of this cross in cultivation. We have never seen a batch of seedlings grow with any more vigor than seedlings of this cross. The season will be mostly throughout the winter months, though as is true of hybrids of this type, twice a year bloom will be quite common.

2" Pots, \$3.00

#393 Lc. Orange Gem, 'Delight' x Slc. Anzac, 'Orchidhurst,' FCC/RHS.

This is the same as our #336, which is listed elsewhere in this catalog. This particular batch of seedlings, however, is the result of making the same crossing and in the same sequence a year later than #336. Theoretically, the results should be identical; however, at times, for reasons difficult to explain, there are certain differences. For practical purposes, both crosses will be almost identical. The expectancy is for a lovely Slc. of especially rich coloring in yellows, oranges and, we are quite confident, some exceptionally good Slc. reds. The growth is excellent.

1 3/4" Pots, \$2.25

#365 (C. Dorothy Mackaill x C. William B. Olson) x C. Bob Betts, 'Goliath,' AM/AOS.

When a parent, such as Bob Betts, 'Goliath,' AM/AOS is used, the quality is almost assured for a superb exhibition white *Cattleya*. Seedlings of this cross, in their early growth stages, have displayed uniformly strong vigor. This cross could have a tendency to flower somewhat earlier than most of the polyploid whites, and could flower throughout the summer and very early fall.

1 3/4" Pots, \$2.00; 2" Pots, \$3.00

#362 Blc. Xanthette, 'Chartreuse' x Blc. Camilla, 'Goldilocks.'

If you are looking for an especially clear, vibrant, vivid yellow, this cross should be a must. Blc. Xanthette, 'Chartreuse' is a shapely, heavy-textured chartreuse Brasso, which oftentimes flowers with a solid yellow lip with no other lip coloration. At times it will have a slight blush of rose in the lip. The Blc. Camilla, 'Goldilocks' is a striking rich gold and yellow Brasso *Laeliocattleya*. The season will probably run throughout the summer months.

1 3/4" Pots, \$2.25; 2" Pots, \$3.50

#348 Lc. Canhamiana alba, 'Valiant' x C. Ardmore alba, 'Alabaster.'

A white with solid purple lip, which will flower heavily around Mother's Day. The Ardmore alba, 'Alabaster' is a tetraploid and is selected from about 500 plants of this cross.

2" Pots, \$3.00



LC ATLANTIS, 'Surprise'

#408 Blc. Helen Morita, 'Cynosure' x Lc. Orange Gem, 'Delight.'

The Helen Morita parent is a lovely, large, heavy-textured yellow Brasso of great vigor and floriferousness. The Orange Gem parent is our perennial favorite and is a vibrant dark orange. The expectancy here is for a delightful range of colors, from bright yellow through to orange and allied shades. Here is a yellow cross that could bloom fairly heavy throughout the winter months, when the yellows are so very scarce.

2" Pots, \$3.50

#345 Lc. Celeste x C. Rita Renee, 'Matriarch,' AM/AOS.

We have crossed one of our loveliest white with purple lip hybrids by the famous tetraploid Rita Renee, 'Matriarch' to make this cross. Due to the polyploidy involved here, the flower texture should be very heavy. The size, shape and substance should be very good, also. Of special value is that many of these could well flower throughout the spring months, around Easter and Mother's Day. There will be a high percentage of white with solid purple lip, though some will have tinged sepals and petals.

1 3/4" Pots, \$2.00; 2" Pots, \$3.00

#349 C. Peetersii, very dark x Lc. Paradisio, 'Colossal,' HCC/AOS.

If we had to select a handful of crosses from this catalog, we would surely number this one among them. The C. Peetersii used is one of the finest forms of the famous Urmston's strain, and is a very large free-flowering dark. Lc. Paradisio, 'Colossal' HCC/AOS is a magnificent tetraploid, which was judged to be the most outstanding commercial *Cattleya* in the great Southland Orchid Show in 1959. The size, shape, substance, texture and floriferousness of this cross are assured. If Lc. Paradisio has a fault as a parent, it is that it is not especially dark, though the C. Peetersii will contribute much to its reddish coloring. Look for many prize winners from this cross within the next few years. The season: late fall throughout early winter months. This could be a very good Christmas bloomer.

2" Pots, \$3.50

#360 C. Dorothy Mackaill, 'Spring Bounty' x C. White Blossom, 'Orchid Manor,' HCC/AOS.

We like to call this a paper perfect cross. Here we have a lovely large polyploid white which we expect to flower heavily around June, when good whites are so hard to get. C. Dorothy Mackaill is a large white of remarkable floriferousness. C. White Blossom, 'Orchid Manor,' HCC/AOS is a June blooming tetraploid.

2" Pots, \$3.00

Stewart's present

Semi Albas

the "Floribunda" type Cattleya



"Floribunda" means lots of flowers, and that is just what you get with these excitingly beautiful Semi-alba type hybrids. Semi-alba is "the correct term" used to describe Cattleyas with white sepals and petals with purple lips. There are no orchids more showy and distinctive than the types listed below. You can literally cut dozens of large showy flowers off one Semi-alba plant.

#S-125 LC. CELESTE, (Lc. Albula, 'Celeste' x C. Mossiae Reineckiana, 'Youngs')

A good white with purple lip is one of the most beautiful of all Cattleya hybrids. The sepals and petals of this variety are pure sparkling white, while the lips are solid crimson. The season is winter and spring.

Flowering size.....5½" - 6" \$17.50

(Prices on selected varieties available)

#S-224 LC. CLIMAX, (Lc. Albula, 'Celeste' x C. Enid alba, 'Lind's')

Surprisingly, one of the most difficult Cattleya types to breed is a good white with a purple lip. We have used two very splendid parents here in what has proven to be a very happy combination. The plants of Lc. Climax which have flowered have had large blooms of good shape with sparkling white sepals and petals and solid crimson lips. The plants of this cross are very vigorous growers and bear an average of three to four flowers to the spray. The season can be expected to run from December through early spring.

Flowering size.....5½" - 6" Pots, \$17.50

(Prices on selected varieties available)

#S-230 C. Labiata, 'Roeblingiana' x Lc. Albula, 'Celeste'

The Labiata parent is a white with a solid crimson lip, as is the Albula. The seedlings which we have flowered so far have had large size, exceptionally good shape and rich white sepals and petals. The season, October through December.

5" Pots, \$15.00

6" Pots, \$22.50

#S-260 Lc. Canhamiana alba, 'Stewart's' x C. Ardmore alba, 'Stewart's'

This lovely free flowering May and June blooming white with purple lip has proven to be most outstanding. Happily, it more than fills the purpose for which it was bred, which was a good white with purple lip for the above season. We recommend this very highly.

5" Pots, \$15.00

6" Pots, \$20.00

#S-345 Lc. Celeste, 'very fine' x C. Rita Renee, 'Matriarch' AM/AOS

We have crossed the famous tetraploid C. Rita Renee, 'Matriarch' onto one of our loveliest largest white with solid purple lip Laeliocattleyas. Interestingly, a good semi-alba (white with purple lip) is one of the most difficult of all Cattleyas to breed. We are confident of some very outstanding things here. A slight tinge of lavender in the sepals and petals of some varieties can be expected; however, we do not feel it will be very strong or in more than a small percentage. The season here can be expected to be throughout the spring months, with many to flower around Easter and Mother's Day.

2" Pots, \$3.00

Special Semi-alba offer #SA-60

Three exquisite flowering size Semi-albas to give you bloom from fall through late spring!

One Fall bloomer.....\$15.00 value

One Winter bloomer.....\$15.00 value

One Spring bloomer.....\$15.00 value

Value.....\$45.00

All three robust plants for only.....\$38.25

Mature Flowering Size

Lc.

CUESTA

HYBRIDS

#S-291 Lc. Cuesta, 'Sovereign' x Bc. Hartland, 'Andrews'

Both parents of this splendid cross are tetraploids. Our laboratory tests have confirmed that the seedlings are tetraploids also. Perhaps the most famous of Bc. Hartland's progeny is the internationally recognized Bc. Norman's Bay. Lc. Cuesta, as a parent, is surely nonetheless famous, having such outstanding hybrids to its credit as Lc. Mem. W. Armacost, Lc. Manila and Lc. Rita Cobb. This cross will be of special interest to those who are looking for a fine exhibition purple, or to those who are looking for tetraploids from which selected forms can be used for further breeding. We expect the season will be late fall through winter. 2" Pots, \$3.50; 2½" Pots, \$5.00

#S-293 LC. MANILA (Lc. Joseph Hampton, 'Stewart's' x Lc. Cuesta, 'Sovereign')

The original strain of Lc. Manila is recognized as one of the most outstanding Laeliocattleya crosses of the last few years. We have repeated this splendid cross, using tetraploid parents on both sides. The cross should provide many excellent show and exhibition varieties, as well as some splendid tetraploid parent stock for future crosses. The season is fall and early winter. Look for especially brilliant dark lips here.

2½" Pots, \$4.50; 3" Pots, \$7.50

#S-299 Lc. Dorothy Fried, 'Royal Robe' x Lc. Cuesta, 'Sovereign'

Dorothy Fried is a very fine Laeliocattleya bred from C. Dinah, AM/RHS x Lc. Princess Margaret. It has proven to be a remarkably good parent. We have not seen a poor hybrid bred from this parent, as yet. Our fine tetraploid, Lc. Cuesta, 'Sovereign' could well prove to be a happy mating with the Lc. Dorothy Fried. The season is apt to be variable; however, Dorothy Fried has a rather definite bloom period of May-June.

2½" Pots, \$4.00; 3" Pots, \$6.00

#S-244 Lc. Cuesta, 'fine tetraploid' x C. Peetersii, 'very large dark'

The C. Peetersii, which we used here, was an outstanding form of the famous Urmston's strain of this cross. We have flowered a few of our S-244's and have found the average to be very good. The ones which we have seen had very large massive dark flowers, with especially rich royal purple lips. The season will primarily be around September-October-November.

5" Pots, \$15.00; 6" Pots, \$22.00; 7" Pots, \$27.50

Selected varieties on application



LC. RITA COBB

#S-197 LC. JOSEPH MARK (Lc. Cuesta x C. labiata, 'very dark')

This is another remake on Lc. Joseph Mark. In each cross, we have used different clonal parents. We can recommend this and the other two crosses with confidence for those who wish to speculate on something with good promise for dark exhibition.

Flowering size — 6" Pots, \$20.00

#S-179 LC. JOSEPH MARK (Lc. Cuesta, 'very fine' x C. Labiata F-2)

Here we have superb exhibition polyploid cross, in which many forms have very large dark reddish purple flowers of splendid exhibition quality. Many of the plants which we have seen have resembled a good dark Cattleya Tethys, C. Fabia or ardentissima. The season will be primarily fall and early winter.

Flowering size — 6"-7" Pots, \$20.00

Selected varieties on application

#S-180 LC. JOSEPH MARK (C. labiata, 'very fine F-2' x Lc. Cuesta)

Our #180 strain of Joseph Mark gives every promise of being one of our finest and darkest exhibition Laeliocattleyas. If you are looking for massive flowers with especially dark lips, we suggest this cross.

Flowering size — 6"-7" Pots, \$20.00

Selected varieties on application

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RESERVE YOUR JUDGMENT . . .

Do not fully appraise or judge a plant on first bloom. The larger and stronger a plant, the better the blooms on the average. A first bloom seedling gives only a general idea of what it will be like on a big plant. Remember, too, the quality on a particular plant will vary according to cultural conditions or the health and size of the plant. A good general rule to remember is: An average variety WELL GROWN oftentimes bears flowers of better quality than a known fine variety which is poorly grown . . . Grow your plants well to get your best flowers.



c. Gail Ann

(C. Estelle alba, 'tetraploid' x C. Pavlova, 'Ballerina')

All the plants which we offer of this superb cross are flowering size divisions of *proven* superior varieties. Gail Ann is one of the loveliest and most satisfying spring flowering white Cattleyas which we have seen. The flowers are large, have good shape and are freely borne on long strong stems, from March through June. Due to having intermedia alba, several generations back in its breeding, the flowers of this cross have a *lovely waxy whiteness* which is so rare yet so desirable in white Cattleyas. This is in contrast to the cream whiteness of most whites. In addition to the many qualities that Gail Ann already has, the plants will frequently flower again throughout the winter months. We have every confidence that those who are looking for a good large waxy white, of outstanding quality, for spring, will find this to be most satisfying.

Well rooted 3 - 4 Bulb Divisions
Off good varieties, \$29.50

c. Portia (Black Prince Strain)

#S-287 (C. Bowringiana, variety 'Black Princè' x
C. labiata, 'fine F-2')

C. Portia was first registered in 1897 and has been remade many times. We do not believe, however, that it has been made using the famous Bowringiana, 'Black Prince.' This handsome cross will bear flowers in heads from six to twelve flowers, each **about three** to four inches across. Plants of this cross, when flowered as specimen plants, will prove to be a breathtaking sight. The season will be primarily October, though it can be controlled nicely for Christmas, by using lights.

4" Pots, \$10.00; 4½" Pots, \$12.50



NOTE: As this catalog went to press we have flowered the first few — They have been all we had hoped for — Flowers of dark satiny color and fine shape.

Fine Breeding Stock = Experience = Know How

The building blocks to breeding fine orchids.

The first rule in breeding of fine orchids is to use the finest possible parents. At Stewart's we recognize this as the cardinal point in our breeding program. As a result of this, we have gathered one of the world's fine collections of Cattleya stud plants. Our stud houses are filled with hundreds of these plants, many rare beyond price, both of proven quality and new ones of great promise. Their total valuation is in excess of \$100,000.00. We call this collection our "gene pool." In these houses you will find plants of every conceivable type, color and season of bloom.

The second of the three reasons for our international recognition is the reputation which we have achieved for knowledgeable breeding. At Stewart's, fine orchid breeding is a way of life — we are dedicated to the around-the-clock creation of constantly finer and more intriguing orchid hybrids for your collection.

The third reason for the confidence which we have earned has been our studied and very careful use of all the principles of scientific breeding in our orchids. In our research we are constantly studying all the scientific papers and books on the latest developments in plant and animal breeding. Yes, we say animal breeding, for there are many analogies in plant and animal breeding. Much of the fine work of genetics has been done in other lines of plant and animal breeding. Happily this can be adapted to orchids for your benefit.

On this page we wish to give you a general idea of some of the fine stud Cattleyas we have in our collection. Understandably these must be but a cross section of the many hundreds. As many of these have been obtained only after years of search, we wish to emphasize that their main use is for breeding. From time to time we do have an occasional division available. The main reason for listing them here, however, is to familiarize you with the parents of crosses which we are offering and shall be offering in future years.

LC. ARECA, 'MODEL' FCC/AOS
SLC. FIRE QUEEN, 'DISTINCTION'
C. PORCIA, 'CANIZARRO' AM/RHS
LC. JOSEPH HAMPTON, 'STEWART'S' 4 N
LC. GITCHIE MANITO, 'SAN GABRIEL' 4 N
LC. GITCHIE MANITO, 'GOLIATH' 4 N
C. FABIA, 'CONGO'
C. FABIA, 'ZANZIBAR'
LC. HILARY FCC/RHS
C. ESTELLE ALBA, 'CYNOSURE' 4 N
LC. CUESTA, 'SOVEREIGN' 4 N
C. JOYCE HANNINGTON, 'SARRA'S' 4 N
LC. PRINCESS MARGARET FCC/RHS
LC. S. J. BRACEY, 'CHARTREUSE' AM/AOS
LC. LUMINOSA, 'CELESTE'
C. BOWRINGIANA, 'BLACK PRINCE'
C. BOWRINGIANA, 'SPLENDENS'
C. LODDIGESII, 'STANLEYS' FCC/RHS
C. AUREA, 'IRONCLAD'
C. DOWIANA AUREA VAR. KING MIDAS HCC/AOS
LC. DESNA, 'ENCORE'
LC. GOLDEN RADIANCE AM/RHS
C. BOWRINGIANA, 'STEWART'S BLUE'
SLC. ANZAC, 'ORCHIDHURST' FCC/RHS

SLC. ANZAC, 'PURPUREA'
LC. BUCCANEER, 'ROYAL COMMAND'
POTINARA MEDEA AM/RHS
SL. PSYCHE
SLC. SUNBURST, 'PIMPERNEL' Bronze Certificate
BC. MIRANDA, 'CHARTREUSE QUEEN' AM/AOS
C. LABIATA, 'ARUBA' Bronze Certificate
C. BOW BELLS, 'PURITY' FCC/RHS
C. JOYCE HANNINGTON, 'ACCOLADE' Gold Certificate
LC. BONANZA, 'VESUVIUS' AM/AOS
LC. BONANZA, 'CASE CARD' HCC/AOS
LC. BONANZA, 'LUCKY STRIKE' Silver Certificate
LC. SOUTH ESK, 'BIANNUM' AM/AOS
LC. ORANGE GEM, 'DELIGHT'
SLC. LINDORES, 'QUEEN OF HEARTS' AM/AOS
BLC. XANTHETTE, 'CHARTREUSE'
LC. LEE LANGFORD, 'COPPER QUEEN'
C. HENRIETTA JAPHET, 'COLOSSAL'
LC. GOLDEN CONCOLOR, 'INCA GOLD'
LC. RED TOWER, 'MENDOTA'
C. INTERMEDIA, 'AQUINII'
BLC. NORMANS BAY, 'RUBY' AM/AOS
BLC. NORMANS BAY, 'LINDA' AM/AOS
LC. GOVERNOR GORE, 'ROYAL HERITAGE'

Lc. Snowdrift

(Lc. Cynthia, 'Model' x C. Annette alba)

LC. SNOWDRIFT surely must be ranked as one of the finest semi-albas (white with purple lips) bred so far. The plants we offer here are a repeat on the original strain, using the identical parents. When a selected variety of this superb cross is well grown, it is among the most beautiful and spectacular of all Cattleya hybrids with its glistening white sepals and petals and striking solid crimson lip. The season is mainly throughout late summer and early fall.

4" Pots, \$12.50

5" Pots, \$17.50

WE WILL BE HAPPY TO SEND INFORMATION ON SPECIALLY SELECTED FINE FLOWERED VARIETIES.

Everyone's Sweetheart

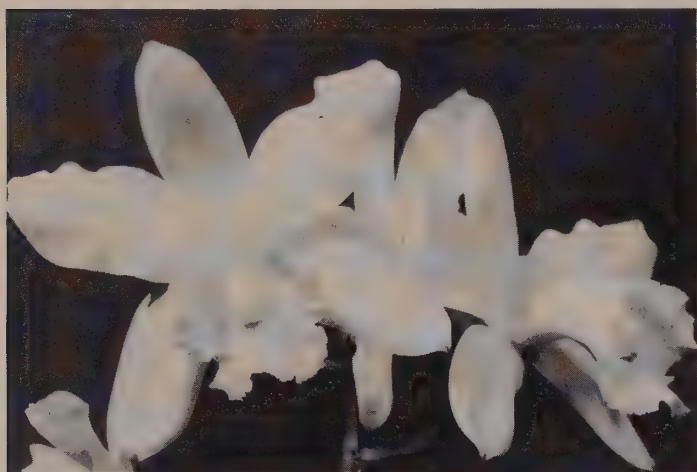
lovely waxy white bifoliate Cattleyas

*easily grown, free blooming — among the
most charming of all orchids*

#S-285 C. Henrietta Japhet x C. Bob Betts, 'Piedra Blanca'

The first parent bears sprays of four to five inch waxy white flowers with up to 6 on a spray, and is of the so-called cluster type. Bob Betts is one of the finest of the conventional polyploid white Cattleyas, and is bred from Bow Bells x Mossiae, 'Wagneri.' The flowers here will be very much on the order of the famous C. Pearl Harbor, C. Vesper Bells, C. Puritan Princess and others of this breeding. The season will be variable, though a fair percentage can be expected to flower in the desirable fall months of August, September and October.

2½" Pots, \$4.00; 3" Pots, \$6.00



C. LODDIGESII, 'STANLEYS,' variety FCC/RHS parent of C. Margaret Stewart, C. Henrietta Japhet and many other fine bifoliate whites.



One of the finest seedlings to flower of our #275 (see right).



C. HENRIETTA JAPHET, 'POMONA'

#S-241 C. MARGARET STEWART (C. Dorothy Mackaill x C. Loddigesii, 'Stanleys,' FCC/RHS)

C. Margaret Stewart is now well established as a fine new white bifoliate Cattleya, on the order of Celia, Snow Song, Henrietta Japhet, and others of this type of breeding. Plants are bifoliate and bear flowers four to five inches across, with up to eight flowers to the spray. This cross is a very fine type for the amateur, who loves its sheer beauty, or for the cut flower grower who must be more practical and get good production at the right time. Many plants of this cross flower twice a year, in the spring and again around August or September. A fair number we have found flower around Christmas.

Mature plants of from 3-6 bulbs with leaves—\$15.00
(Many of these have flowered and are of nice quality)

#S-322 C. Empress Bells, 'Victoria' x C. Louise Georgiana, 'Monique'

Here is a line of breeding on which we have done quite a bit of work. Empress Bells is C. Bow Bells by Edithiae, 'White Empress,' and is a superb large exhibition white. The second parent is a primary hybrid of intermedia alba x C. Souvenir de Louis Sander. A lovely round medium size hybrid on the order of Vesper Bells, C. Pearl Harbor or C. Clair Ayau, is expected here.

2" Pots, \$3.50

#S-275 C. Loddigesii, 'Stanleys,' FCC/RHS x Mossiae, 'Wagneri' B-32

We have been one of the leaders in the breeding of the ever popular so-called wedding whites, such as Snow Song, Celia, Vesper, Angelus, Henrietta Japhet and others of this type. Though this is a primary cross from two of the most famous true albino species, we find the combination has never been made. The Mossiae used here, is a third generation home-bred Mossiae, and is the best of several hundred plants. As is typical of most Loddigesii, 'Stanleys' hybrids, many of these seedlings can be expected to flower twice a year. The main season will probably be late spring around April-May-June.

3" Pots, \$6.00; 4" Pots, \$10.00

c. Mossiae
Wagneri
 for
June Wedding
Whites

Picture the lovely plant in the illustration in your greenhouse next May or June! We selected this plant to show better than words why we rate our home raised Mossiae 'Wagneri' so highly. The plant shown is in a 5" pot and carried ten handsome fragrant flowers.

The Mossiae 'Wagneri's' which we offer are the result of inter-crossing for 2 to 4 generations superior selected forms of this species. (F₁ to F₄)

Whether you are a hobbyist or a commercial grower who wants fine whites to spell profit, we are sure you will find these to be more than worth while.

4" Pot Size, \$10.00

6" Pots, \$20.00

5" Pots, \$15.00

7" Pots, \$25.00



C. MOSSIAE 'WAGENERI'

FREE . . . Ask for a Copy of our booklet about Cattleya Culture. An interesting feature is its question and answer section that covers questions frequently asked by the beginner. 28 pages of basic culture.

Stewart's Budget Plan

Stewart's Budget Purchase Plan enables you to buy your Orchids now and pay on convenient monthly terms. We will ship you plants and you can enjoy watching them grow and bloom while you make your payments. By receiving a group of plants at one time, considerable saving may be experienced in postage and express charges. Oftentimes, too, you can experience the saving of purchasing in larger quantities.

No interest is charged on any account paid within the 90 day period. The accounts are payable on a 30-60-90 day basis. The first payment is due within 30 days of arrival of the plants. There are no hidden charges in the prices of our plants. Budget customers select from our catalogs the same as for cash customers.

Many of our customers prefer the simple 30-day charge payable by the 10th of each month.

HERE'S HOW YOU DO IT:

All you have to do is send us three credit references. On approval your account is automatically open and you may order any amount up to \$200.00 on your account, payable in three equal payments. On larger purchases payment may be made by arrangement.

Orchid Supplies

INSECTICIDES

50% MALATHION

A superior new spray, very effective in controlling scale, thrip, aphid, mealybug, etc.

Pints \$2.95
8 oz. 1.95
4 oz. 1.00



HYDROMIX GARDEN INSECTICIDE

Contains Malathion and Methoxychlor. Can be attached directly to your Hydromix head for easy spraying.

8 oz. 1.45
1 qt. 3.95

50% CHLORODANE (wetable powder)

Best for control of ants and chewing pests.

1 lb. 1.85

COOKE'S SLUG & SNAIL (contains no arsenicals)

Widely used as an effective slug and snail control. Attracts and kills on the spot.

2½ lb. 2.79
8 oz. .85

LIQUID "LAST BITE" SLUG & SNAIL KILLER (non-arsenical)

Contains 50% Metaldehyde. Spray on plants and benches; kills pests on contact as they crawl over treated areas.

1 pt. 2.50
8 oz. 1.35



PLANT FUME SMOKE GENERATOR

Set on floor in house — light — that's all, the work is done! Simple labor saving way to control scale, aphid, mealybug, thrip, etc.

To treat 5,000 cu. ft. .85

DUPONT'S ZERLATE

Effective control of various forms of fungus, mycelium mold, etc., that occasionally appear in some Fir Barks.

3 lb. bag 3.35

FERTILIZER

Stewart's Ideal Orchid Fertilizer (water soluble)

Especially packaged Orchid fertilizer, designed for Cattleyas, Vandas, Phalaenopsis, botanicals, etc.

Efficiently balanced to give best results with minimum use.

1 lb. bag, \$1.00; 3 lb. bag, \$2.50; 5 lb. bag, \$3.75



*Now--*THE ANSWER
TO TRAINING PLANTS
IN FIR BARK

P & H
Pot Clips

— TWO MODELS —

18" and
24" for mature plants

- ★ Easy on, easy off — clip on rim of pot.
- ★ Holds plants in place without string.
- ★ Bend your pot clip to meet your need.
- ★ Double loop on end of tag where you can see it. Loop is safety feature too — no sharp ends.
- ★ Sturdy galvanized wire cannot rust — may be used time after time.

POT CLIP PRICES

Each	15c
In lots of 100, each	13c
In lots of 250, each	12c

All prices F.O.B. San Gabriel, California

Trial Package, asstd. sizes 5 for \$1.00 postpaid

Formula 312—Soluble Orchid fertilizer.

1 lb., \$1.10; 3 lbs., \$3.00

LABELS — White Celluloid

	Each	Per 100
Wired labels (3 1/2" x 5/16")	.03	\$2.70
Stick-in type (4 3/4" x 3/4")	.02	1.85

LABELS — Colored Celluloid

Stick-in type (5/8" x 4")	.02	1.85
Green, red, blue, yellow		
(Use them to identify and mark special plants)		

TRIGGER-GRIP —

All purpose shut-off nozzle

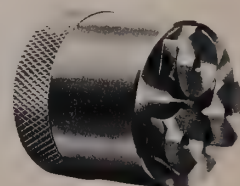
To fit on end of hose.

\$1.95



FOGG-IT — Fits on the end of any hose

Engineered to break up water into a solid pattern of spray as fine as fog — 1.95



Decorative "Pot Covers"

Beautify your flower pot with ornamental Pot Covers. Just the thing to slip around the unsightly clay pots when you bring them into your home . . . and they make a most attractive gift wrap, too!

Elastic grip — snaps on in seconds, compact for storage, decorative and economical.



TROPI COVER, Matchstick bamboo 4 sizes to cover all pots

4" covers pots from 2½" - 4"	\$.50 each
6" covers pots from 4" - 6"	.75 each
8" covers pots from 6" - 8"	.90 each
10" covers pots from 8" - 10"	1.05 each

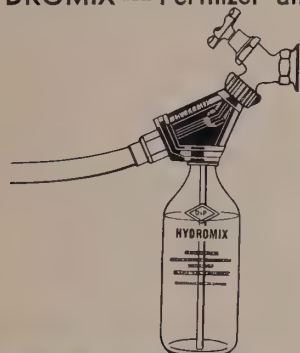
Distinctive broad strip mahogany finished bamboo Pot Covers

4" _____	\$.60 each
5" _____	.75 each
6" _____	.85 each
7" _____	1.25 each
8" _____	1.50 each



EXPANDABLE BAMBOO
POT COVERS

HYDROMIX — Fertilizer and insecticide dispenser



Simply attach to hydrant and hose, and automatically dispense fertilizer or insecticide to the exact proportion desired.
Hydromix Unit \$3.95
8 oz. Hydromix insecticide 1.45
(Contains Malathion and Methoxychlor)
1 qt. Hydromix insecticide 3.95

"400" WATER BREAKER — A new nozzle that fits on the end of hose

Allows water to flow rapidly without washing out the Fir Bark 1.50



HANDI-REACH — Light weight polished aluminum hose extension handle

Makes watering in hard to reach areas easy. Excellent with "400" Water Breaker. 24" length with rubber grip 1.80



PLASTIES — Waterproof plastic twist-ties packet

.29

FLORIST TWINE per spool

.55

GARDEN MEASURE — For accurate measure of insecticides, etc.

Marked in ¼ oz. measures (up to 1 oz.)
Teaspoons, tablespoons and milliliters.

Replaces inaccurate messy spoon-measuring. each .20

ORCHID TUBES AND CAPS — tubes with caps, combined price

3" per dozen \$.60
per 100 4.50

5" per dozen \$.75
per 100 5.25

PIN-ON LAPEL TUBES —

(Cut a flower, put stem in tube and pin it on your friends)
each \$.10
per doz. .75

RECOMMENDED READING

"Home Orchid Growing," Rebecca Northen	\$6.95
"Orchids as House Plants," Rebecca Northen	3.50
"You Can Grow Orchids," Mary Noble	1.98
"Your First Orchids and How to Grow Them," Oregon Orchid Society	1.25
"The Orchids"—A Scientific Survey, Dr. Carl L. Withner	14.00
(This book is a collection of 14 articles, each topic covered by an authority in that particular field, edited by Dr. Carl L. Withner. Emphasis is placed on the scientific, or botanical, rather than the horticultural approach to orchids. There are over 600 pages of useful and authoritative information.)	

TREE FERN SLABS

Excellent for natural plant supports.

Just wire your botanical onto a slab and hang it up.

¾" thick x 12" long; 5"-6" wide .40 each
3 for \$1.00

FREE . . . Ask for a copy of our booklet about *Cattleya Culture*, an interesting feature is its question and answer section that covers questions frequently asked by the beginner.

Potting Material

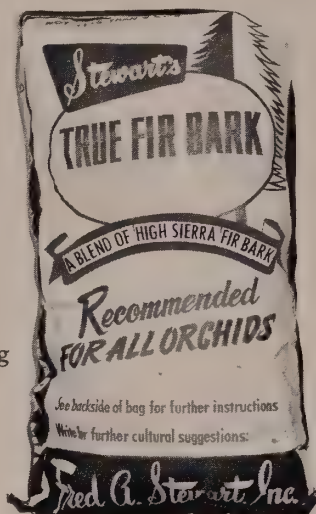
STEWART'S TRUE FIR BARK FOR ALL ORCHIDS

NOW AVAILABLE FOR EVERYONE, EVERYWHERE

From true fir trees grown in California's cool high Sierras. Gives you top results with so much less effort and cost. STEWART'S TRUE FIR BARK.

1. Gives best results.
2. Easy to use — pour it in the pot; firm it down with fingers or stick, that is all!
3. Costs less.
4. Easy to water — much easier than Osmunda.
5. Easy to feed. See our Cattleya cultural booklet C-1 for feeding instructions.

Double screened. Once to remove excessively large pieces; second to remove too fine particles.



IMPORTANT

To save on shipping we suggest a minimum 2 bags on all orders to be shipped. We ship motor freight collect, unless instructed otherwise.

How much can I pot with one bag of fir bark? One 2 cu. ft. bag of fir bark will pot: approximately 250 3" pots, 90 4" pots, 50 5" pots, 35 6" pots, 20 7" pots.

Large 2 cubic foot bag	\$2.50
5 - 9 bags, each	2.25
10 - 15 bags, each	2.10

Here's the Hobby Fir Bark Box That Most Beginners Order

We have a special package of Fir Bark that contains enough bark to pot from 6 to 12 mature plants (5"-6" pots), which we will deliver POSTPAID TO YOUR DOOR anywhere in the continental UNITED STATES for only \$3.95. Of course this will take care of up to double the above number of plants in smaller pots. On larger potting requirements, we suggest the regular 2 cubic foot bags which we send motor freight collect.

HAWAIIAN "HAPU" FERNWOOD FIBER

Long lasting potting medium for Cattleyas and botanicals.

Comes in 1.8 cu. ft. bags, graded, ready to use.

	Approx. wt. per bag	10 bags or less	11 - 25 bags
fine	27 pounds	\$4.00	\$3.85
medium	25 pounds	4.85	4.70
coarse	16 pounds	4.50	4.35



**DON'T
SPREAD
DISEASE IN
YOUR ORCHID
COLLECTION**

Cutting tools often spread disease.

Be safe! Sterilize your cutting tools with the Bernz-O-Matic torch. For several years we have used this handy method of flame-sterilizing all cutting tools to prevent the spread of bacterial, fungal and virus diseases among plants. At present, flame or heat sterilization is the only sure, quick method for absolute sterilization.

The hand-held Bernz-O-Matic Torch is simplicity in itself

- Adjust flow of gas from nozzle by turning hand valve and ignite, using the handy flint-sparker or matches.
- Pass cutting shears or knife slowly through flame to sterilize.
- Each Disposable Fuel Cylinder lasts for months under normal usage. (Up to 15 hours steady, on pencil flame.)
- When cylinder is empty, unscrew burner unit and discard empty fuel cylinder. Replacement cylinders are available.

*It only costs a penny or two to
protect your valuable Orchids.*

Bernz-O-Matic torches have 101 other uses around the home or shop:

Soldering
Lighting fireplace
Repairing plumbing

Thawing water pipes
Splicing wires and cables
Loosening rusted unions
and connections

Complete cylinder and burner unit

ready to use* **\$6.95**

Sparker with flint igniter (saves matches) \$.30

Flint Renewals for Sparkers (6 to a box) . . . \$.60

Disposable Fuel Cylinder (replacement) . . . **\$1.95**

(*Mailing weight of cylinder and burner unit only 3 pounds)



You too Can grow exquisite Orchids in your own home

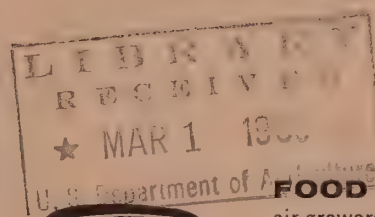
NO COSTLY EQUIPMENT Wherever you live, in any climate, you can enjoy the fascinating hobby of raising exquisite CATTLEYA ORCHIDS without expensive equipment. A shallow pan or dish containing several inches of gayly colored aquarium pebbles or pea gravel, a sunshiny window, and you're ready to grow the "Queen of all flowers!" Fill your pan of gravel with water to one-half the height of the pebbles. **Do not let pot sit in water.** This container of moist gravel keeps your plants from drying too fast and provides humidity for the plant.



TAKES LITTLE TIME Orchid growing has all the requirement for a wonderful hobby - it takes such little effort to produce astonishing results! If you can devote 20 minutes once or twice a week to caring for your plants they will thrill you with bouquets of exotic blooms. The variety occurring in the orchid family guarantees lasting interest and enjoyment - it appeals to the whole family. In fact, it is the perfect hobby".



LOCATION A single table or window ledge is big enough to start, in kitchen, living room, hall, or wherever there is plenty of light. Give your orchid plants all the sunlight you can without burning the leaves. They can stand the direct sun all day, every day, except in the middle of summer when they should be protected from direct noonday sun. While plants are in bloom move them to that part of the house best suited to display them.



FOOD Although Cattleya orchid plants are semi-air growers, they too benefit by fertilization. A simple feeding program will reward you with extra strong growth and lovely flowers. Most standard house plant fertilizers are satisfactory; however, if in doubt, use one-half the recommended strength. Fertilizer should never be applied to a dry plant.



TEMPERATURE The same temperature at which you live comfortably are ideal for maximum growth in Cattleya orchids. They like temperatures between 55 and 85 degrees Fahrenheit; however, occasional deviations in temperature either way will not harm the plants. If the air in your home is good to breathe, your orchids will like it too.

WATERING Cattleya orchids are epiphytic or semi-air growers. They must dry out completely between waterings. Approximately once per week take your five and six inch clay pots to the kitchen or laundry tub and pour one-half gallon of tap water through each pot. Permit them to drain and put back on your gravel tray. Do not use artificially softened water, or glazed pottery. In testing for moisture in pots, sharpen a wooden pencil, push sharpened end into center of pot. A freshly sharpened end shows moisture, do not water.



8606 E. Las Tunas Drive
San Gabriel, California
AT 7-8974 AT 7-0015

Breeders and Growers of the Finest in Orchids

Fred A. Stewart, Inc.



Give your home an *Exciting New Personality* with **Orchids as a hobby!**

COSTS SURPRISINGLY LITTLE

As a commercial grower, we are hybridizing and developing new plants as well as constantly dividing our cut flower stocks thereby creating new plants that we can pass along to you at a much lower cost.

As an orchid plant gets older it becomes larger; then it may be divided into several plants. Since we do this in volume we are able to pass the flowering plants along to you at substantial savings.

ORCHID PLANTS MULTIPLY

Orchid plants increase in size each year and as they enlarge you may divide them for increased flower production, or perhaps this might even be the beginning of a home business, growing orchids.

Most common plants multiply by getting taller or thicker, but orchid plants develop entirely new growths which may be separated from the original plant thereby creating another plant capable of producing flowers. The Cattleya plant that produced four flowers last year is capable of producing eight flowers or more this year. As Cattleyas multiply their bulbs every year, the older bulbs or growths of previous years serve to feed the new. Therefore, under normal care an *ORCHID* plant can live forever!

P.S.

Here's a money saving tip for those with business heads.

Many hobbyists have made their hobby a profitable one by selling corsages to friends, clubs, and even retail florists. You may be in an area removed from the sources of ORCHID supply and your local florist would be most anxious to buy fresh ORCHID flowers.

STEWARTS - QUALITY - SERVICE - INTEGRITY

The Orchid business, perhaps more than most any other trade, is based upon the integrity of the seller. Make your purchases from an established firm of good reputation - from STEWARTS we would of course prefer, but if not from here, then from another house equally as responsible and experienced. Our experienced shipping staff has served not only the United States but 22 foreign countries as well, and we are awaiting your order too!

PLANTS TO BLOOM IMMEDIATELY

We supply you with mature ready-to-bloom plants. From seed it normally takes 3½ to 5 years to produce a Cattleya plant's first flower. We start you with plants already up to blooming size which can flower within a few weeks or months. It's not expensive; it's not difficult.

A REAL MAN'S HOBBY

We at Stewarts can testify to the fact that when a man gets enthusiastic about this unusual hobby his neighbors, friends, and fellow workers will be deluged with glowing adjectives about his new-found interest.

There is nothing quite like growing ORCHIDS to relieve the strain and tension of hard work, whether mental or physical.

GIFT NOTE

There must be many women of your acquaintance who have longed for, but have never worn, an orchid. The joy you will create through gifts of exquisite ORCHIDS at Mothers Day, Easter, for birthdays, graduations, and anniversaries may only be experienced by those who grow their own orchids. And the cost to you? Practically nothing, for you may clip them from your own plants whenever needed.

Fred A. Stewart, Inc.

8606 E. Las Tunas Drive
San Gabriel, California
AT 7-8974 AT 7-0015

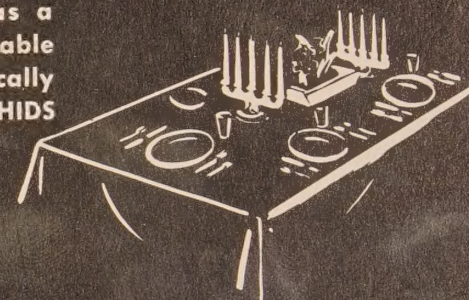


ENTER FLOWER SHOWS

At flower shows ORCHID displays are always the center of attraction, whether staged in a tropical setting or merely entered as a single plant on a table.

FABULOUS CENTERPIECES

Compliments will be showered upon you when you use ORCHIDS as a centerpiece. Create thrilling table decorations that cost you practically nothing when you grow ORCHIDS as a hobby.



SCHOOL PROJECTS

Here's a school or club project that is sure to capture the attention of the entire class.

REMEMBER SHUT-INS

There is nothing more interesting than an orchid plant just bursting into bloom. Your shut-in friends will never cease thanking you for your unusual gift.



For the lasting thrill of your life

Turn Page



SPARKLING PURPLES:

Cattleyas, the best known of all ORCHIDS, give you a wide choice of colors from sparkling purples, lacey lavenders, and some rare varieties of deep plum purple. Surprising to most people, most Cattleya ORCHIDS are fragrant.



GORGEOUS WHITES

Gorgeous white Cattleyas, sometimes known as the wedding flower, are among the most sought after types. Some have only a delicate touch of yellow in the labellum, while others have brilliant orange markings.



EXOTIC ALBAS:

The white with purple lip Cattleyas are referred to as "albas" within orchid circles. This is truly one of the most exotic of all orchids as it combines china white with bold cerise purples.

Budget Wise, Value Packed

Starter Cattleya Group

Sturdy flowering size plant with bloom sheath to bear one or more sprays of regal flowers—postpaid to your door.

for only

you may specify your color preference or we'll surprise you with a grand plant of our selection.

\$9⁷⁵

POSTPAID

Here's A Grand Orchid Value

We will send you—postpaid—three plants; all with flower sheaths, each a different color. for only

you may get all of one color or any combination you wish.

\$24⁷⁵

Postpaid to your door

you save more than \$6.00 ! !

All plants are labeled hybrids and are well established in the new "Easy To Grow In" Fir Bark.

Use enclosed order form

Fred A. Stewart, Inc.

8606 E. Las Tunas San Gabriel, Calif.
At 78974 At 70015

AVAILABILITY OF STOCKS

PLEASE READ

A fine catalog takes many months of hard work and is very expensive. Copies of this list will go out to every corner of the world. It will be used as a selling list for from twelve to twenty-four months. In order that this list be of maximum usefulness, we must list crosses that *will become* available during that period, as well as crosses which are now available. It must be understood too, that orchid plants are continually growing and the pot sizes available are continually changing.

Though the majority of crosses are available for immediate delivery on issuance of this catalog, where not available immediately we have so indicated. **ON ANY CROSS WHICH IS LISTED AS AVAILABLE ON A DATE LATER THAN YOUR TIME OF ORDER, WE SHALL BE HAPPY TO ACCEPT YOUR ORDER AND SHIP WHEN THE PARTICULAR PLANTS ARE PROPERLY ESTABLISHED.** All that is required for pre-selection of your plants is payment of one-half or more. There is no charge for holding these plants until delivery date.

Our Gift Certificate Service

You may prefer to let your friends select their own plants. For the convenience of our customers we have initiated a Gift Certificate Service. Here is how it works: Send us your remittance for the amount you wish to give. We will make out a Gift Certificate in that amount and mail it to your friend. At the same time we will send a copy of this catalog from which he may make his selection. Your name as donor will appear on the certificate.

You will receive a duplicate copy which will serve as your receipt.

If you prefer we will send the Gift Certificate directly to you and you may present it directly to the person for whom it is intended.

Please be sure to give us the following information:

The name and address of each person to whom you wish to send a Gift Certificate.

Your name and address.

The amount of each certificate.

You may send us a gift card addressed to your friend. We will enclose the Gift Certificate and mail it at once.

CONDITIONS OF SALE

1. We do NOT make a packing charge on any order of \$10.00 or more.
2. Unless otherwise advised, shipment will be made via *Railway Express, charges collect*. Smaller orders are shipped parcel post. We prepay on parcel post. Please remit on receipt of invoice. We ship via air freight or parcel post on all overseas orders.
3. Unless your credit has been established with us, kindly enclose your check, money order, or bank draft to cover payment of your order in full. We have a liberal credit plan. Ask us about opening an account.
4. California purchasers add 4% State sales tax.
5. Plant Losses—Our reputation depends on the results you have. We make every effort to send you the finest possible stock. As plants are living things, however, we cannot guarantee that a given plant will thrive.
6. Please note further quantity discounts are *not permitted* on already discounted group offerings.

QUANTITY DISCOUNTS

We feel the amateur or private grower is entitled to price concessions when plants are purchased in quantity. The following discount schedule applies on all plants listed in the catalog *except* on special quotations or special package groups.

Orders totaling \$100.00 or less are sold at retail list.

\$100.00 to \$199.00, list valuation,
.....10% discount

\$200.00 to \$399.00, list valuation,
.....15% discount

\$400.00 to \$750.00, list valuation,
.....20% discount

IMPORTANT

May we substitute plants of equal value in the same general type and quality for any variety that is sold out? We guarantee satisfaction. If given permission to recommend we often can send even better varieties than you might select!

The integrity and reputation of our establishment is behind every plant we send you.

Our most popular group offer!

"Stewart's" All Months "Group"

Orchids in Bloom every month of the year

We will select 12 flowering size exquisite Cattleya hybrids for you, each a different variety, so you will have plants in bloom the year around. You will receive regal purples, exquisite rare whites, exotic semi-albas, and even a lovely striking golden bronze or yellow.

Truly, this is the group with which to start your Orchid Collection or add to the one you have. All plants are strong, flowering size, and well established. One will burst into bloom within several weeks after you receive it. The balance will give you a thrilling procession of bloom throughout the four seasons. We must be permitted to make the selection.



Here is what you get — 12 flowering size plants, all different!

Our 24 page Cattleya culture booklet is sent free with each group.

*A \$130.00 value. You save more than
\$30.00 over the individual plant prices!*

*All groups will be shipped Railway Express Collect in pots
unless we are instructed otherwise.*

**OUR SELECTION OF 12 LARGE ADULT BLOOMING
SIZE PLANTS. FOR ONLY \$98.75**

New Adventure Collection

Haven't you always secretly admired those about you who strike out to find new adventures?

Here is your opportunity to do some adventuring on your own: 5 SEEDLINGS, each different with unusual and exciting breeding.

1. Bifoliate, with lilac to blue expectancy
2. Dwarf Sophrolaelia hybrid, orange-red-yellow
3. Eye catching bifoliate purple
4. Ever blooming white cluster Cattleya
5. A rare Potinara (Sophro-Laelio-Brasso-Cattleya)
(dark purple-red to orange)

One each in 2½" - 3" Pots

(a value of \$29.00 or more)

For Only **\$23.20** net.

PICTURE COLLECTION

Value Packed Starter Cattleya Group

3-COLOR trio flowering size

Strong growing, easy to flower plants.

All mature labeled Cattleya Hybrids

From 4" to 6" pots

One each:

One Regal purple

One sparkling white

One snowy semi-alba
(white with purple lip)

All in sheath to flower in season.

\$9.75 each . . . or 3 for \$24.75

(You save more than \$6.00)